INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001974

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12O-1/68

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12, C07, A61

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms

Canadian Patent Database, DELPHION, USPTO, ESPACENET, PUBMED, GENBANK, GENESEQ Multiplex, PCR, polymerase chain amplification, primer extension, thrombosis, single nucleotide polymorphism, point mutation, SNP, factor V Leiden, G1691, prothrombin, G20210A, factor II, C677T, methylenetetrahydrofolate reductase,

MTHFR, A1298C, factor XIII, G4377T, tissue specific factor plasma inhibitor, TFPI, C536T, allele specific, and tagged

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant | Relevant to claim No(s). |
|-----------|--|--------------------------|
| Y | EP 1,398,388 A2 (CULLEN, P. et al.) 17 March 2004 Abstract; Example 1; Table 1 | 1-7, 9-12, 14 and 15 |
| Y | ENDLER, G. et al. Multiplexed mutagenically separated PCR: simultaneous single-tube detection of the factor V R506Q (G1691A), the prothrombin G20210A, and the methylenetetrahydrofolate reductase A223V (C677T) variants. Clin. Chem. February 2001, Vol.47, No. 2, Pages 333-335 Pages 333-334, bridging paragraph; Figure 1 | 1-7, 9-12, 14 and 15 |

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"X"

"V"

"&"

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

- Special categories of cited documents A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international
- "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance, the claumed invention cannot
- be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

10 March 2005 (10-03-2005)

29 April 2005 (29-04-2005)

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street

Gatineau, Quebec KIA 0C9

Facsimile No: 001(819)953-2476

Authorized officer Qianfa Chen (819) 994-1374

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001974

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| ation). DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No(s). |
| NEITZEL, B. et al. Easy, accurate and reliable screening for SNPs by ion pair/reverse phase HPLC: simultaneous detection of factor V G1691A, prothrombin G20210A and methylenetetrahydrofolate reductase C677T variants. Clin. Lab. July-August 2003, Vol. 49, Nos. 7-8, Pages 313-318 Abstract; Figure 1 | 1-7, 9-12, 14 and 15 |
| WO 00/47766 A1 (GIBSON, N. J. et al.) 17 August 2000 Abstract; page 2, line 9 to page 4, line 3 | 1-7, 9-12, 14 and 15 |
| WO 02/059355 A2 (KOBLER, D. et al.) 1 August 2002 Page 5, lines 8-15; Table I | 1-7, 9-12, 14 and 15 |
| GB2,338,062 A (BOWEN, D. et al.) 08 December 1999 Page 91, line 27 | 8, 13, 16 and 17 |
| WO 2004/072887 A2 (ROBERTS, G. et al.) 26 August 2004 Page 56, SEQ ID NO 4 | 8, 13, 16 and 17 |
| WO 00/11034 A1 (KLEESIEK, K. et al.) 2 March 2000 Page 4, line 16 | 8, 13, 16 and 17 |
| | Citation of document, with indication, where appropriate, of the relevant passages NEITZEL, B. et al. Easy, accurate and reliable screening for SNPs by ion pair/reverse phase HPLC: simultaneous detection of factor V G1691A, prothrombin G20210A and methylenetetrahydrofolate reductase C677T variants. Clin. Lab. July-August 2003, Vol. 49, Nos. 7-8, Pages 313-318 Abstract; Figure 1 WO 00/47766 A1 (GIBSON, N. J. et al.) 17 August 2000 Abstract; page 2, line 9 to page 4, line 3 WO 02/059355 A2 (KOBLER, D. et al.) 1 August 2002 Page 5, lines 8-15; Table I GB2,338,062 A (BOWEN, D. et al.) 08 December 1999 Page 91, line 27 WO 2004/072887 A2 (ROBERTS, G. et al.) 26 August 2004 Page 56, SEQ ID NO 4 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2004/001974

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| Patent Document Cited in Search Report | Publication Date | Patent Family Member(s) | Publication Date |
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| WO0047766 A1 | 17-08-2000 | AU2447100 A EP1151136 A1 GB9902971D D0 | 29-08-2000 07-11-2001 31-03-1999 |
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| GB2338062 A | 08-12-1999 | GB9809063D D0 | 24-06-1998 |
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| WO0011034 A1 | 02-03-2000 | AT269356T T AU5736899 A CA2340460 A1 DE69918128D D1 EP1105423 A1 US6521410 B1 | 15-07-2004 14-03-2000 02-03-2000 22-07-2004 13-06-2001 18-02-2003 |